

Application No.: 10/657,092

Docket No.: 1315-045

Amendments to the Abstract:

Please substitute the attached abstract for that already filed.

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Replacement Sheet

ABSTRACT

A friction stir welding apparatus of a piston for a variable capacity swash plate type compressor bonds two pistons through friction stir welding without forming a hole in welded portions of the piston members. The friction stir welding apparatus includes: A support that rotatably supports coaxially coupled first and second pistons. A welder, rotatably inserted into welded portions of the first and second pistons supported on the support, performs friction stir welding along the rotation direction of the first and second pistons. Support rollers elastically mounted on the lower portions of the pistons have central axis lines of the piston members on central axis lines of the rotation support while the pistons are supported on the support. The rollers vertically move through a predetermined height while supporting the pistons. The welder is transferred from the welded portions to another position after welding of the welded portions.